

HEMATOPOIETIC GROWTH FACTOR INDUCIBLE NEUROKININ-1 GENE

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Application No. 10/039,272

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1 cggcacgagg gccagagga auaaguuaac cuuggugccu gcguccguga gaauucagca

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	M E C L Y Y F	L G F L L L A	A R L P L D			
121	ccgccaaacg	auuucaugau	gugcugggca	augaaagacc	uucugcuuac	augagggagc
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	H N Q L N G W	S S D E N D W	N E K L Y P			
241	uguggaagcg	gggagacaug	agguggaaaa	acuccuggaa	gggaggccgu	gugcaggcgg
	V W K R G D M	R W K N S W K	G G R V Q A			
301	uccugaccag	ugacucacca	gccucugugg	gcucaaaauu	aacauuugcg	gugaaccuga
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361	uauucccuag	augccaaaag	gaagaugcca	auggcaacau	agucuaugag	aagaacugca
	I F P R C Q K	E D A N G N I	V Y E K N C			
421	gaaaugaggc	ugguuuauuc	gcugauccau	auguuuacaa	cuggacagca	uggucagagg
	R N E A G L S	A D P Y V Y N	W T A W S E			
481	acagugacgg	ggaaauggc	accggccaaa	gccaucauaa	cgucuucccu	gaugggaaac
	D S D G E N G	T G Q S H H N	V F P D G K			
541	cuuuuccuca	ccaccccgga	uggagaagau	ggaauuucan	cuacgucuuu	cacacacuug
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601	gucaguauuu	ccagaaaauu	ggacgauguu	cagugagagu	uucugugaac	acagccaaug
	G Q Y F Q K L	G R C S V R V	S V N T A N			
661	ugacacuugg	gccucaacuc	auggaaguga	cugucuacag	aagacaugga	cgggcuaaug
	V T L G P Q L	M E V T V Y R	R H G R A Y			
721	uucccaucgc	acaagugaaa	gauguguacg	ugguaacaga	ucagaauuccu	guguuuguga
	V P I A Q V K	D V Y V V T D	Q I P V F V			
781	cuauguucca	gaagaacgau	cgaaauucan	ccgacgaaac	cuuccucaa	gaucucccca
	T M F Q K N D	R N S S D E T	F L K D L P			
841	uuauguunga	uguccugauu	caugauccua	gccacuuccu	caauuauucu	accuuuaacu
	I M F D V L I	H D P S H F L	N Y S T I N			
901	acaaguggag	cuucggggau	aaucugggcc	uguuuguuuc	caccauacau	acugugaau
	Y K W S F G D	N T G L F V S	T N H T V N			
961	acacguaugu	gcucaaugga	accuucagcc	uuaaccucac	ugugaaagcu	gcagcaccag
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1021	gaccuugucc	gccaccgcca	ccaccaccca	gaccuucaaa	accaccccu	ucuuuaggac
	G P C P P P P	P P P R P S K	P T P S L G			
1081	cugcugguga	caacccccug	gagcugagua	ggauuccuga	ugaaaacugc	cagauuaaca
	P A G D N P L	E L S R I P D	E N C Q I N			
1141	gauauggcca	cuuucagacc	accaucacaa	uuguagaggg	aaucuuagag	guuaacauca
	R Y G H F Q A	T I T I V E G	I L E V N I			

Fig.1A

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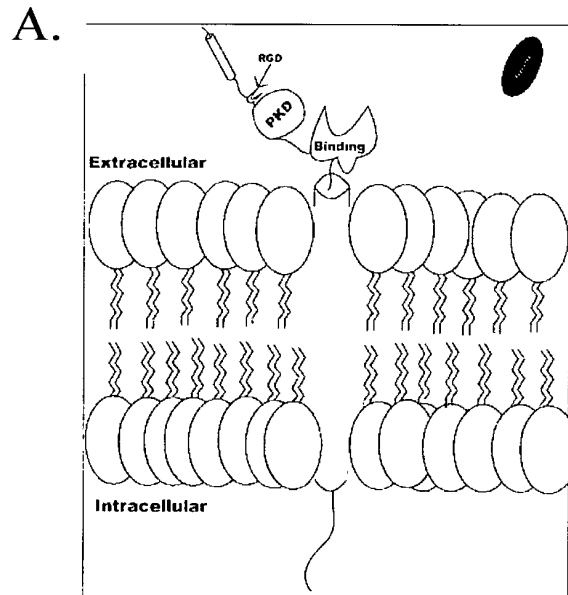
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1381	cugugagacg	aaccuucuu	gggucuggga	cguacugugu	gaaccucacc	cuggggggug
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	P L R M A N S A L I S V G C L A I F T V					
1561	ugaucucccu	cuugguguac	aaaaaacaca	aggaauacaa	cccaauagaa	aaugaguccug
	I S L L V Y K K H K E Y N P I E N S P G					
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	N V V R S K G L S V F L N R A K A V F F					
1681	ucccgggaaa	ccaggaaaag	gaucggcuac	ucaaaaacca	agaauuuuaa	ggaguuucuu
	P G N Q E K D P L L K N Q E F K G V S					
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1921	cagcuucagc	cauguuguga	aacugauaaa	agcaacuua	caaggcuucu	uuucauuuuu
1981	uuuuauuuu	cacuuauaaa	gucuuaggua	acuaguagga	uagaaacacu	gugucccgag
2041	aguaaggaga	gaagcuacua	uugauuagag	ccuaacccag	guuaacugca	agaagaggcg
2101	ggauacuucc	agcuuuccau	guaacugua	gcuaaaagcc	aauguagucc	aguuuucuaag
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2521	gaucaguaag	gauuuccccu	cuguuuggaa	cuaaaaccuu	uuacuauaug	uuagacaaga
2581	cauuuuuuuu	uuuuccuucc	ugaaaaaaaa	augaggggag	agacaaaaaa	aaaaaaaaaa
2641	aaaaaaaaaa	aaaaaaaaaa	aa			

Fig.1B

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B.

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1  MECLYYFLGF  LLLAARLPLD  AAKRFHDVLG  NERPSAYMRE  HNQLNGWSSD
51  ENDWNEKLYP  VWKRGDMRWK  NSWKGGRVQA  VLTSDSPALV  GSNITFAVNL
101 IFPRCQKEDA  NGNIVYEKNC  RNEAGLSADP  YVYNWTAWSE  DSDGENGTGQ
151 SHHNVFPDGK  PFPHHPGWRR  WNFIIYVFHTL  GQYFQKLGRG  SVRVSVNTAN
201 VTLGPQLMEV  TVYRRHGRAY  VPAAQVKDVY  VVTDQIPVFEV  TMFQKNDRNS
251 SDETFLKDLP  IMFDVLIHDP  SHFLNYSTIN  YKWSFGDNTG  LEVSTNHTVN
301 HTYVLNGTFS  LNLTVKAAAP  GPCPPPPPPP  RPSKPTPSLG  PAGDNPLELS
351 RIPDENCQIN  RYGHFQATIT  IVEGILEVNI  IQMTDVLMPV  PWPESSLIDE
401 VVTCQGSIPT  EVCTIISDPT  CEITQNTVCS  PVDVDEMCLL  TVRRTFNGSG
451 TYCVNLTLDG  DTSLALTSTL  ISVPDRDPAS  PLRMANSALI  SVGCLAIFVT
501 VISLLVYKKH  KEYNPPIENSP  GNVVRSKGLS  VFLNRAKAVF  FPGNQEKDPL
551 LKNQEFKGV
  
```

RGD = Cell Adhesion region

N = ASN Glycosylation Site

PKD Region;

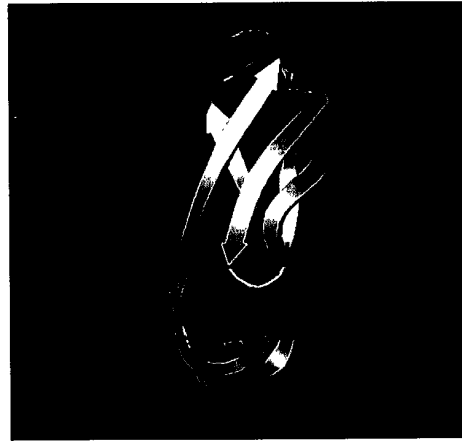
Transmembrane

Fig.2

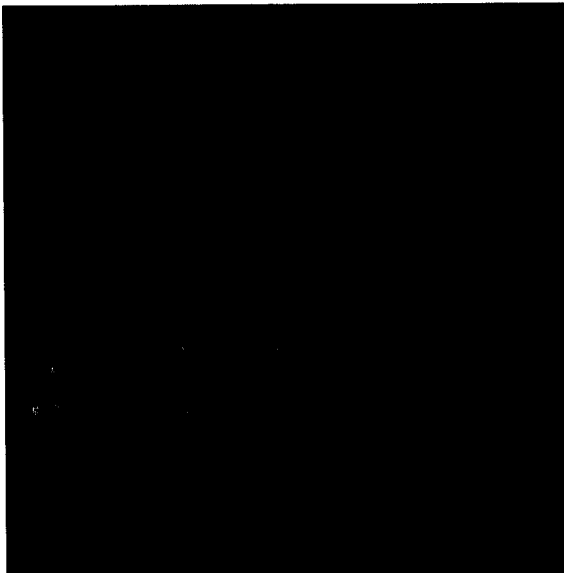
A. HGFIN-PKD



B. PKD (1B4R)



C. SP-HGFIN



D. SP



Fig.3

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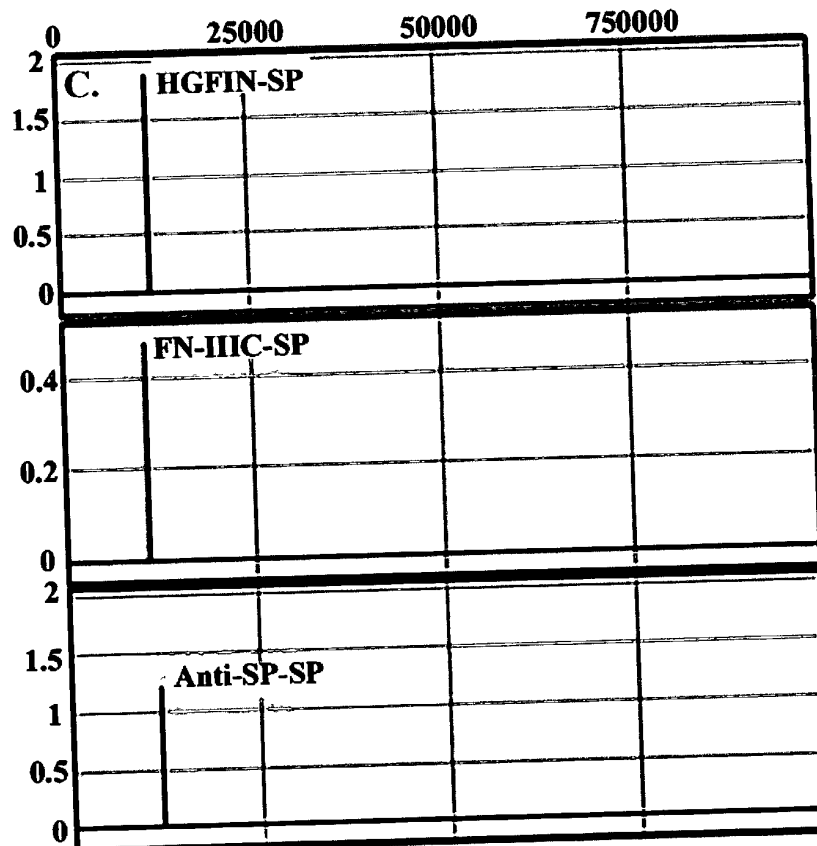
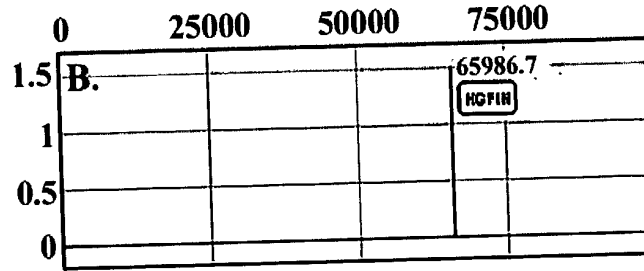
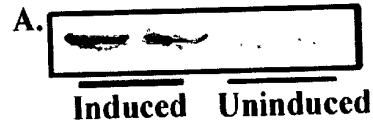
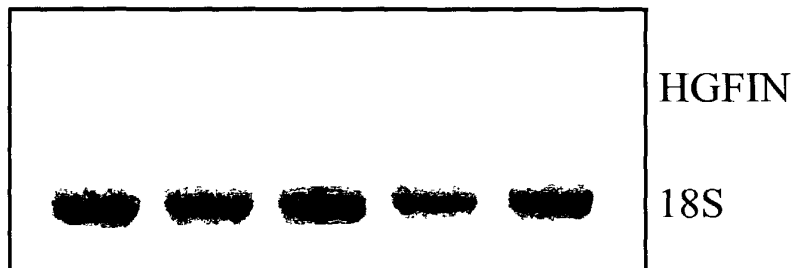
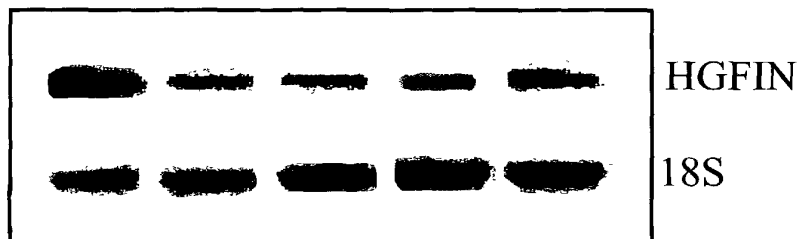


Fig.4

A. BMNC



B. PBMC



C. Differentiated BMNC

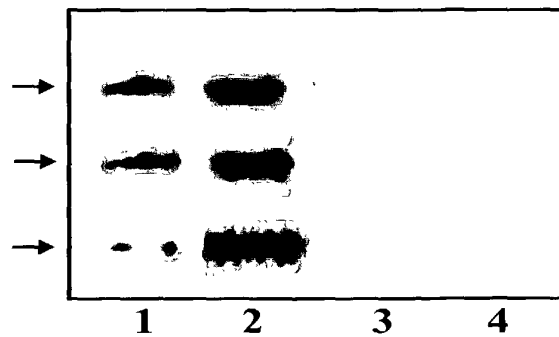


Fig.5

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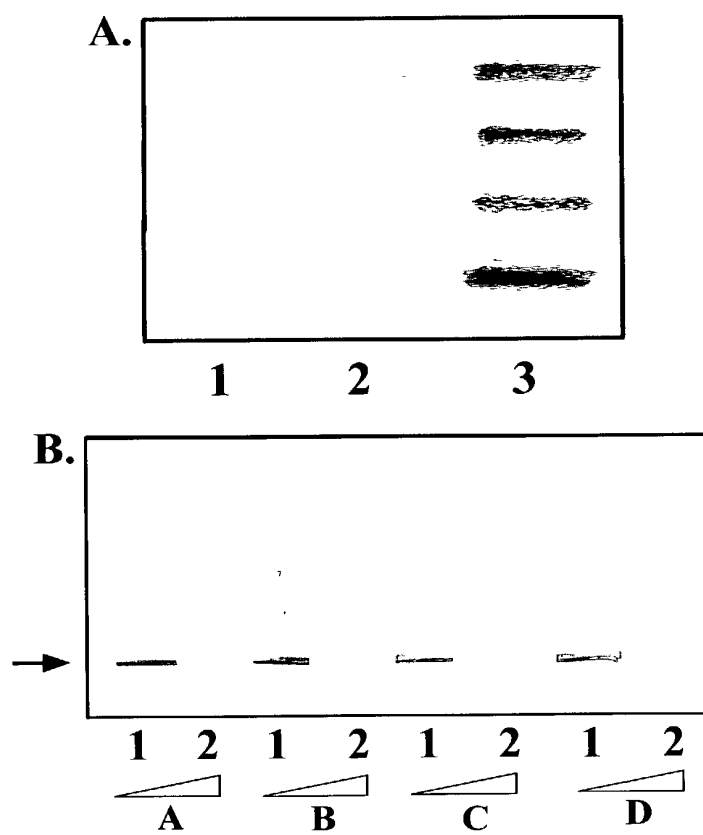


Fig.6

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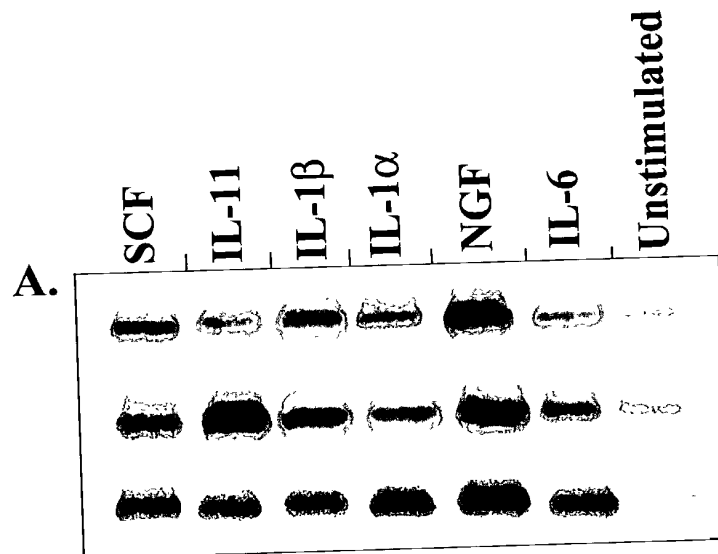


Fig.7A

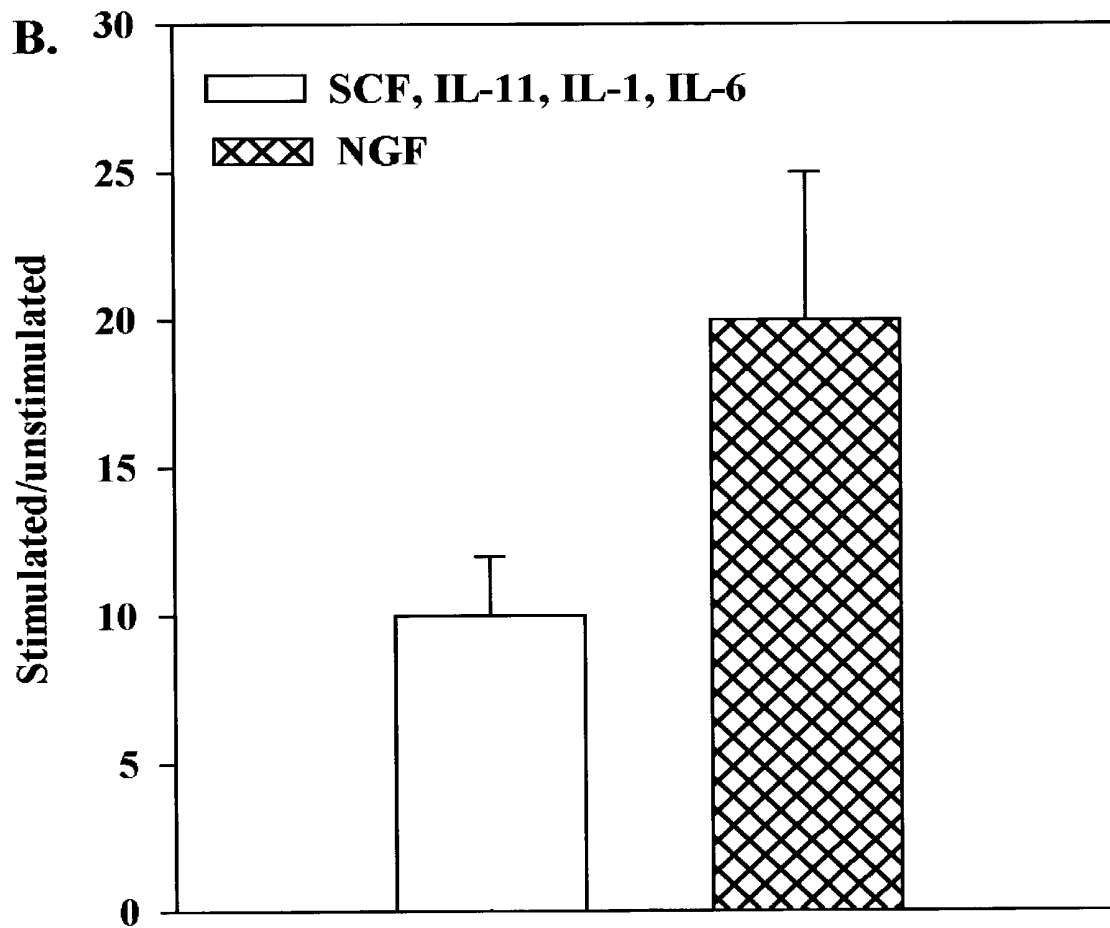


Fig.7B

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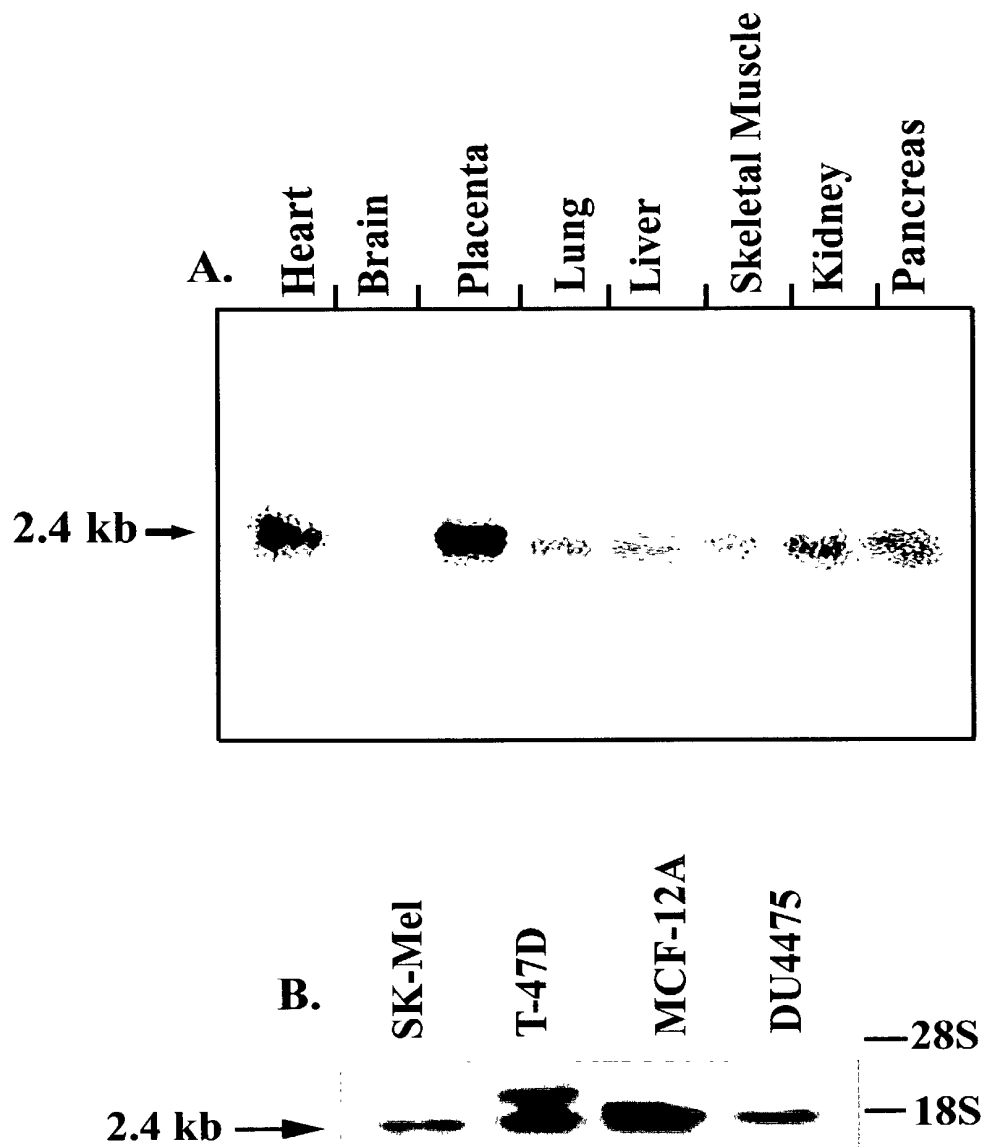


Fig.8